

Centified in 19O 9001:2000, ENVISO 13465:2003, European CE Mark

K092580

510(k) Summary TIDI® Facemask

FEB 2 8 2010

To: Whom it may concern

Date: February 12, 2010

Submitter/ Contact - Name and Address

Dion J. Brandt
Quality Manager
TIDI Products, LLC
570 Enterprise Drive
Neenah WI 54956

Telephone: (920) 751-4386 Fax: (920) 751-4370

FDA Registration Number: 2182318

Device Details:

Trade Name: TIDI® Facemasks or Customer trade names

Common Name: Surgical Mask Classification Name: Mask, Surgical

Product Code: FXX

Regulation Number: 878.4040

Equivalent Legally Marketed Device:

The TIDI® Facemasks are similar to the predicate device in material composition, design, style and dimensions. The similarities in materials, design, style along with performance testing supports that the TIDI® Facemasks are substantially equivalent to the predicate device. The comparison table on the following page out-lines the similarities and any differences between the TIDI® Facemask and the predicate device.

Predicate Devices

510 K Number:

A.R. Medicom Non-Sterile Surgical Mask
 Crosstex Isolite Surgical Mask

K051291

K012602

Description	TIDI® Facemask	Predicate: Non-Sterile Surgical Mask K051291 and K012602	
Materials			
Outer layer	Polypropylene Spun-bond	Same	
Filter Media	Melt-blown polypropylene	Same	
Inner Layer	Polypropylene Spun-bond	Same	
Nose Piece	Malleable aluminum	Same	
Ear Attachment	Elastic	Same	
Anti-Fog	Foam	N/A	
Dimensions			
Length	7.0 inches	Same	
Width	3.5 inches	Same	
Design			
Style	Flat, Pleated	Same	
	Fluid resistant	Same	
	Elastic Ear loops	Same	
Sterile	No	Same	
Single Use	Yes	Same	

DESCRIPTION OF THE DEVICE:

The TIDI® Facemask, are pleated multi-ply design which are supplied non sterile. The outer layers are made of 100% spun-bound polypropylene (SBPP). The filter media is composed of 100% melt-blown polypropylene (MBPP). The inner layer is made of either 100% SBPP or 100% medical grade tissue paper. The ear loops are made of latex free elastic. The nosepieces are made of malleable aluminum, and can be supplied with an anti fog strip made of polyester urethane foam. All materials used in the construction of the mask are being used in currently marketed devices. The mask covers the nose and mouth, and is secured to the face using the attached ear loops. The TIDI® Facemasks are intended to be worn by operating room personnel during surgical procedures to protect both the surgical patient and the operating personnel from transfer of microorganisms, body fluids and particulate material.

The following is a list of models of the TIDI® Facemasks with a description.

Model 9010 - This is the standard facemask model with ear loop attachments.

Model 9020-This facemask model is supplied with an anti-fog strip of polyurethane foam. The foam is attached over the nose wire on the inside of the mask.

INTENDED USE:

The TIDI® Facemask intended use is: Surgical mask are devices that are intended to be worn by operating room personnel during surgical procedures to protect both the surgical patient and the operating personnel from transfer of micro-organisms, body fluids and particulate material.

Device and Predicate Device Technical Characteristics:

Description	TIDI®	Predicate Device	Predicate Device	
Describitor	Facemask	K012602		
	racemask		K051291 Safe+Mask® Premier	
		Crosstex® Ultra		
		Fluid Resistant No-	Elite Ear loop Mask	
		Fog® Ear Loop Face		
		Mask	<u> </u>	
Material Com				
Type of fabric				
Outer Layer	Polypropylene	Polypropylene	Polypropylene	
	Spun-bond	Spun-bond	Spun-bond	
Filter Media	Filter Media Melt-blown Melt-blow		Melt-blown	
	polypropylene	polypropylene	polypropylene	
Inner Layer	Polypropylene	Polypropylene	Polypropylene	
	Spun-bond	Spun-bond	Spun-bond	
Other Materia	lls:			
Nose Piece:	Aluminum	Aluminum	Aluminum	
Ear	Elastic	Elastic	Elastic	
Attachment:				
Anti-Fog	Polyester	Polyester Urethane	none	
	Urethane foam	foam	·	
The difference	of the anti fog mat	terial is the polyester ur	ethane foam. The	
		used in medical applica		
		city or biological comp		
		-sensitizing, and non-ir		
	nd Dimensions:	D) ************************************		
Dimensions:			 	
	7.0 inches	7.0 inches	7 0 :1	
Length:	7.0 menes	7.0 inches	7.0 inches	
Width:	3.5 inches	3.5 inches	3.5 inches	
Design	Ear Loop	Ear Loop	Ear Loop	
Features:	*	•	F	
Mask Style:	Flat Pleated	Flat Pleated	Flat Pleated	
 	<u> </u>	Page 4 of 5		

Nonclinical Tests Performed for Determination of Substantial Equivalents are as Follows:

The following is a list of test methods for the TIDI® Facemask in accordance with ASTM 2100 specification for surgical masks. It was our conclusion that testing was conducted and met the specified acceptance criteria of ASTM F 2100-07 Standard Specification for Performance of Materials Used in Medical Face Mask.

	Face Mask Requirements by Performance Class (ASTM F 2100-07)			
Performance Characteristics	Low Barrier	Moderate Barrier	High Barrier	TIDI® Facemask Test Results Summary
Bacterial Filtration Efficiency Performance (%) (ASTM 2101)	≥95	≥98	≥98	>99.9
Differential Pressure (Delta-P) (mm H ₂ O/cm ²) (MIL-M 36954C)	<4.0	<4.0	<4.0	3.4
Sub-micron Particulate Filtration Efficiency at 0.1 micron Performance (%) (ASTM F 2299)	Not required	≥98	≥98	99.6
Resistance to penetration by synthetic blood, Minimum pressure in mmHg for pass results. (ASTM F 1862)	80	120	160	Pass @ 80 mm Hg
Flammability Class (16CFR Part 1610)	Class 1	Class 1	Class 1	Class 1

Conclusion:

The TIDI® Facemask has the same intended use and technological characteristics as the predicate devices. Product testing and FMEA risk analysis performed did not identify any other risks on the safety or effectiveness associated with surgical masks, other then identified in the Guidance for Industry and FDA Staff: Surgical Masks-Premarket Notification [510(k)] Submission; Guidance for Industry and FDA issued on: March 5, 2004. The TIDI® Facemask are substantially equivalent to the predicate device.





Food and Drug Administration 10903 New Hämpshire Avenue Document Control Room --WO66-G609 Silver Spring, MD 20993-0002

Ms. Dion J. Brandt Quality Manager TIDI Products, LLC 570 Enterprise Drive Neenah, Wisconsin 54956

FEB 2 3 2010

Re: K092580

Trade/Device Name: TIDI® Facemask Regulation Number: 21CFR 878.4040 Regulation Name: Surgical Apparel

Regulatory Class: II Product Code: FXX Dated: December 7, 2009 Received: December 7, 2009

Dear Ms. Brandt:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please go to

http://www.fda.gov/AboutFDA/CentersOffices/CDRH/CDRHOffices/ucm115809.htm for the Center for Devices and Radiological Health's (CDRH's) Office of Compliance. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to

http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm.

Sincerely yours,

Anthony D. Watson, BS, MS, MBA

Director

Division of Anesthesiology, General Hospital, Infection Control, and Dental Devices Office of Device Evaluation Center for Devices and Radiological Health

Medical Devices

Indications for Use Form

In	idications for Use
510(K) Number (if Known):	K092580
Device Name: TIDI® Facema	a <u>sk</u>
personnel during surgical proc	are intended to be worn by operating room edures to protect both the surgical patient and ransfer of micro-organisms, body fluids and
Prescription use(Part 21 CFR 801 Subpart D)	AND/OR Over- The Counter UseX (21 CFR 801 Subpart C)
(PLEASE DO NOT WRITE BELO IF NEEDED)	W THIS LINE-CONTINUE ON ANOTHER PAGE

Division Sign-Off)

Division of Anesthesiology, General Hospital Infection Control, Dental Devices

Concurrence of CDRH, Office of Device Evaluation (ODE)

510(k) Number: K0 \$ 2 580